

PowerCut® 1600



PowerCut makes plasma cutting easier and more economical, delivering reliability, high production, and a wide variety of performance features to simplify operations, reduce set-up time, and enhance consumable life, so you spend less time troubleshooting and more time cutting.

- **Rugged design - durable external housing design is damage-resistant, corrosion-resistant and weather-resistant, while remaining lightweight for portability**
- **Input voltage selector switch - conveniently located on back of the machine, lets you easily change input voltage from 208V to 460V**
- **Tool-less quick disconnect torch disconnects from machine for storage, repairs, or replacement without the use of wrenches or special tools, or to attach a PT-37 mechanized torch**
- **Digital readout display is easy to read and shows exact pressures or amperage as well as help codes to assist in troubleshooting**
- **Switch between gouge, grate, and normal modes automatically, tailoring your application without manually changing settings on console**
- **Delivers the extra output voltage needed for superior plasma gouging capability**
- **Torch wrap and spare parts kit holder is standard on all packages**
- **Blowback technology eliminates high-frequency startups that can disrupt CNC controls and nearby computer systems**
- **Sensitive internal electronics are suspended from the aluminum frame, insulating them from shock and vibration**
- **Silicone-sealed switches are immune to corrosion and dust and dirt infiltration**
- **Automatic fan control allows cooling fan to run only when necessary – conserves energy and reduces ingested dust and dirt**
- **Built-in power line conditioner protects against damage from power line noise and spikes, even with poor-quality power**
- **“Plug-n-Play” mechanized option lets you easily transform your manual cutting system into a powerful mechanized system for your gantry machine**
- **One-year warranty on torch**



Ordering Information

Ready to Cut Packages with PT-38 Torch

PowerCut 1600, 208-230/460V, 25 ft. (7.6 m)	0558007231
PowerCut 1600, 208-230/460V, 50 ft. (15.2 m)	0558007232
PowerCut 1600, 575V, 25 ft. (7.6 m)	0558007238
PowerCut 1600, 575V, 50 ft. (15.2 m)	0558007239

Includes: console, PT-38 torch, torch spare parts kit, air filter, regulator, power cable, 25 ft. (7.6 m) work cable with clamp. System arrives fully assembled and ready to cut

Standard Console 230/460V with PT-37 Mechanized Torch

PowerCut 1600, mechanized, 25 ft. (7.6 m)	0558008180
PowerCut 1600, mechanized, 50 ft. (15.2 m)	0558008181

Includes: remote hand switch and rack.

PowerCut 1600 Packages with CNC Interface

230/460V, PT-37, 25 ft. (7.6 m)	0558008174
230/460V, PT-37, 50 ft. (15.2 m)	0558008175
230/460V, PT-37, 25 ft. (7.6 m) with rack	0558008176
230/460V, PT-37, 50 ft. (15.2 m) with rack	0558008177
575V, PT-37, 25 ft. (7.6 m) with rack	0558009182
575V, PT-37, 50 ft. (15.2 m) with rack	0558009183
230/460V, PT-38, 25 ft. (7.6 m)	0558008184
230/460V, PT-38, 50 ft. (15.2 m)	0558008185

Includes: torch holder, spare parts kit, and CNC interface cable.

Options & Accessories

90A spare parts kit, PT-38 0558007639
 Plasma flow measuring kit 0558000739

Torch Guide Kits

Deluxe: 1-3/4 in. (44.5 mm) 42 in. (106 cm) radius. 0558003258
 Basic: 1-3/4 in. (44.5 mm) 28 in. (71 cm) radius 0558002675

Remote hand switch, 25 ft. (7.6 m) 0558008349
 Remote hand switch, 50 ft. (15.2 m) 0558009277
 Stand-off guide 0558006614
 40A drag nozzle 0558007682
 Utility cart 0558007898
 Gouging heat shield 0558008186
 Gouging nozzle 0558007681
 CNC cable interface, 30 ft. (9 m) 57002248
 Plug-n-Play mechanized kit 0558007885
 Heavy-duty water separator 0558007897

PT-37 Replacement Torches

With rack 4.5 ft. (1.3 m) 0558004860
 With rack 17 ft. (5.2 m) 0558004861
 With rack 25 ft. (7.6 m) 0558004862
 With rack 50 ft. (15.2 m) 0558004863
 Without rack 4.5 ft. (1.3 m) 0558004894
 Without rack 17 ft. (5.2 m) 0558004895
 Without rack 25 ft. (7.6 m) 0558004896
 Without rack 50 ft. (15.2 m) 0558004897

PT-38 Replacement Torches

25 ft. (7.6 m) 0558006786
 50 ft. (15.2 m) 0558006787

Optional Five Year Warranty

Powercut 1600 extended warranty XWPC1600

Specifications

PowerCut 1600	
Cuts, in. (mm)	1-1/2 (38)
Severs, in. (mm)	1-3/4 (44)
Output	90A @ 40% duty cycle, 1ph 90A @ 60% duty cycle, 3ph
Input	230V, 1ph, 50/60Hz, 78A 208/230/400/460/575V, 3ph, 50/60Hz, 47/41/26/25/20A
Recommended engine driven generator power	230V, 1ph = 18kW 230V, 3ph = 16.5kW 460V, 3ph = 20kW 575V, 3ph = 21kW
Air requirements, cfm @ psig (L/min @ bar)	400 @ 80 (165 @ 4.8-5.2)
Dimensions, LxWxH, in. (mm)	27.8x12.7x14.9 (706x323x378)
Weight, lbs. (kg)	90 (41)

Cut Speed Chart (90A)

Thickness		Cut Speeds		
in.	mm	ipm	mm/min	
0.125	3.1	350	8,890	Recommended.
0.25	6.3	160	4,064	
0.375	9.5	95	2,413	
0.5	12.7	60	1,524	
0.625	15.8	46	1,168	
0.75	19	29	736	
1	25.4	19	482	
1.25	31	12	304	
1.5	38	8	203	Max.
1.75	44.4	5	127	